PATENT COOPERATION TREATY

PCT

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INTERNATIONAL PRELIMINARY REPORT ON PATENTIAL PRELIMINARY REPORT ON PATENTIAL PRELIMINARY REPORT OF PATENTIAL PREPART OF P (Chapter II of the Patent Cooperation Treaty)

(PCT Artcle 36 and Rule 70)

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Applicant's or agent's file reference PP04-0125	FOR FURTHER ACTI	ON	See Form PCT/IPEA/416	
International application No.	International filing date(da	y/month/year)	Priority date (day/month/year)	
PCT/KR2004/003024	22 NOVEMBER 200	04 (22.11.2004)	08 DECEMBER 2003 (08.12.2003)	
International Patent Classification (IPC	<u> </u>			
C12N 1/16(2006.01)i, A23L 1/	09(2006.01)i		•	
	•			
Applicant				
CJ CORP. et al	•			
This report is the international pr Authority under Article 35 and tr			nternational Preliminary Examining	
2. This REPORT consists of a total	of 4 sheets, in	ncluding this cover she	eet.	
3. This report is also accompanied	by ANNEXES, comprising:		•	
	d to the International Bureau) a total of	sheets, as follows:	
sheets of the des	scription, claims and/or drawi	ngs which have been	amended and are the basis for this report	t
and/or sheets cor Administrative In		zed by this Authority	(see Rule 70.16 and Section 607 of the	
	· · · · · · · · · · · · · · · · · · ·	ch this Authority cons	siders contain an amendment that goes	
beyond the discle	osure in the international appl	lication as filed, as inc	licated in item 4 of Box No. I and the	
Supplemental Bo	ox.			
b. (sent to the International	al Bureau only) a total of (indisting and/or tobles related the	icate type and number	r of electronic carrier(s)) m only, as indicated in the Supplementa	
Box relating to Sequence	ce Listing (see Section 802 of	the Administrative In	in only, as indicated in the Supplementa astructions).	11
4. This report contains indications r	elating to the following items	:		
Box No. I Basis of the	report			
Box No. II Priority				
Box No. III Non-establ	ishment of opinion with regar	rd to novelty, inventiv	re step and industrial applicability	
	ity of invention	,	- ovep and made in approximity	
Box No. V Reasoned	statement under Article 35(2)	with regard to novelt	y, inventive step or industrial applicabilit	ty;
	d explanations supporting succuments cited	en statement		
Box No. VII Certain defo	ects in the international application	cation		
	servations on the international			
	ervations on the international	аррисанон		
Date of submission of the demand	Ī	Date of completion of	this report	*
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07 OCTOBER 2005	(07.10.2005)	08 MARCH 2	2006 (08.03.2006)	
Name and mailing address of the IPEA		Authorized officer		****
Korean Intellectual Propert	y Office		The state of the s	Avin.
920 Dunsan-dong, Seo-gu, Republic of Korea	Daejeon 302-/01,	LEE, CHUNG H	o (C)	71
Facsimile No. 82-42-472-7140	I	elephone No. 82-42	-481-8160	7

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2004/003024

Box	No.	o. I Basis of the report	
1.	Wit	ith regard to the language , this report is based on the international application in the language indicated under this item.	
	K	This report is based on translations from the original language into the following I	language <u>English</u> .
		which is the language of a translation furnished for the purposes of:	
		international search (under Rules 12.3 and 23.1(b))	
		publication of the international application (under Rule 12.4)	
		international preliminary examination (under Rules 55.2 and/or 55.3)	•
1	to the	th regard to the elements of the international application, this report is based on <i>(replactive receiving Office in response to an invitation under Article 14 are referred to in this exed to this report): the international application as originally filed/furnished</i>	cement sheets which have been furnished reort as "originally filed" and are not
1		the description:	
'		pages	as originally filed/furnished
		pages* received by this Authority on	
	•	pages*received by this Authority on	
ſ		the claims:	
ı		pages	as originally filed/furnished
			ner with any statment) under Article 19
		pages* received by this Authority on	·
		pages* received by this Authority on	
F		A. American	•
L		the drawings: pages	11 61 116 11
		pages*	as originally filed/furnished
		pages*received by this Authority on	
3.		the sequence listing and/or any related table(s) - see Supplemental Box Relating to Solution The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets the sequence listing (specify): any table(s) related to sequence listing (specify):	
4. [This report has been established as if (some of) the amendments annexed to this report made, since they have been considered to go beyond the disclosure as filed, as indicated (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets the sequence listing (specify): any table(s) related to sequence listing (specify):	ated in the Supplemental Box
* If	item	n 4 applies, some or all of those sheets may be marked "superseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/KR2004/003024

В	ox No.	IV Lack of unity of invention
1.		In response to the invitation to restrict or pay additional fees the applicant has, within the applicable time limti: restricted the claims paid additional fees paid additional fees under protest and, where applicable, the protest fee paid additional fees under protest but the applicable protest fee was not paid neither restricted nor paid additional fees.
2.	\boxtimes	This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.
3.	This	Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is: complied with. not complied with for the following reasons: Group I, claim 1 drawn to a chemically defined medium for fermentation culture of a strain of the genus Candida. Group II, claims 2–9 drawn to a process for producing xylitol in high yield by recycling culture of a strain of the genus Candida. therefore, it considers that the inventions listed as Groups I and II do not relate to a single inventive concept under PCT Rule 13.1.
4.	\boxtimes	quently, this report has been established in respect of the following parts of the international application: all parts. the parts relating to claims Nos.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2004/003024

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

	4.0	
Novelty (N)	Claims 1-9	YES
	Claims	NO
Inventive step (IS)	Claims 1-9	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-9	YE:
	Claims	NO

2. Citations and explanations (Rule 70.7)

The following documents have been considered for the purpose of this report:

D1: JP 12-093188 A (BORATSUKU CO., LTD.) 4 APRIL 2000

D2: KR 2000-76625 A (AJINOMOTO CO., LTD) 26 DECEMBER 2000

I. Novelty and Inventive Step

Claims 1–9 of the present application relate to a chemically defined medium for fermentation culture of a strain of the genus *Candida*, which comprises a special composition; and a process for producing xylitol in high yield by recycling culture of a strain of the genus *Candida*.

D1 discloses a method for preparing xylitol by culturing *Candida tropicalis*. D2 describes a method of producing xylitol by culturing of various microorganisms.

Compared with the present application, none of the above-mentioned prior art documents discloses the special medium and the method to effectively product xylitol with high yield using recycling microorganisms. In addition, the claimed invention is not considered obvious to a person skilled in the art by using the teachings of D1-D2.

Therefore, the subject matter of claims 1-9 of the present application complies with the requirements of novelty and inventive step under PCT Article 33(2) and (3).

II. Industrial Applicability

There is no reason for forming a negative opinion about the industrial applicability of this application. Consequently, claims 1-9 appear to meet the requirement of PCT Article 33(4).